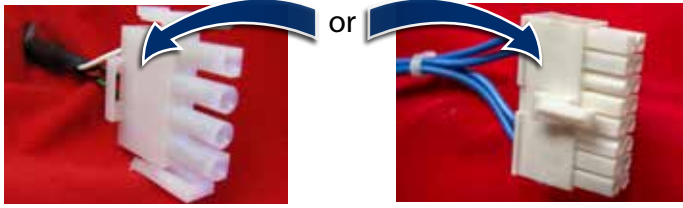# QwikSwap® Azure® Variable Speed Motor Adapter
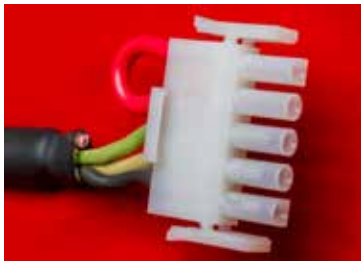
 or

For 4 Pin Connectors
or 16 Pin Connectors with only 4 wires

(Use other instructions for 16 pin connector with more than 4 wires)

This board is for use with the Azure® MARS No. 10865 (1/3 and 1/2 HP) and 10866 (3/4 and 1 HP) ECM motors. These motors use line voltage speed taps and connect to the Qwik**Swap**® board at the motor outputs. No capacitor is required. The optional hand held programmer (MARS No. 08502) can plug into the Azure® motor to fine tune the CFM provided by the 3 speed output of the Qwik**Swap**® board.
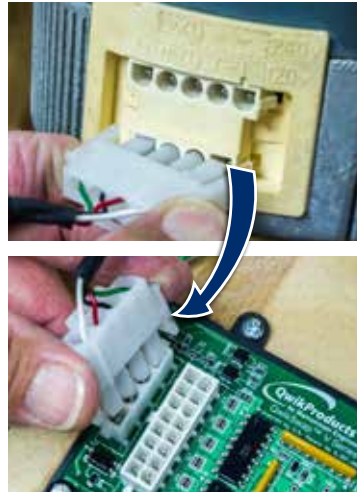
1 Determine Motor Voltage

Jumper Wire - Set Azure® motor for 120V operation

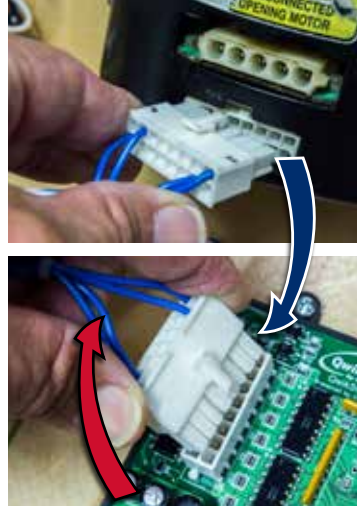**No Jumper Wire -** Set Azure® motor for 240V operation

2 Connect the Qwik**Swap**®

With **power off**, remove the **5-pin** power and **4-pin** signal connectors from defective ECM motor and plug them into mating connections on the Qwik**Swap**® board.

5-pin Connector from Motor to Qwik**Swap**® Board

then... With **power off**, remove the **16-pin** or **4-pin** signal connector (*with more than 4 wires*) from defective ECM motor and plug it into mating connection on the Qwik**Swap**® board.

4-pin Connector from Motor to Qwik**Swap**® Board

or...

16-pin/4 wire Connector from Motor to Qwik**Swap**® Board

More than 4 wires on this 16-pin connector? Use the other instructions!

IF THE PLUGS DON'T FIT YOU'RE USING THE WRONG QWIKSWAP, NEVER CUT THE CONNECTORS OFF!

Flip over to the back of this sheet, there's a few more steps ▶
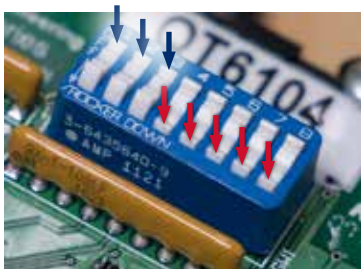
3 Select the Horsepower

Use the Configuration Switches on the Board to select the horsepower of the defective ECM motor.

Note the direction of **ON**/**OFF** in the Figure.

NOTE:
OFF position is indicated by a **down arrow** at the left of the set!

CONFIGURATION SWITCH NUMBER & POSITION								
H.P.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
1/3	ON	ON	ON	OFF	OFF	OFF	OFF	OFF
1/2	ON	ON	ON	ON	OFF	OFF	OFF	OFF
3/4	ON	ON	ON	ON	ON	ON	OFF	OFF
1	ON	ON	ON	ON	ON	ON	ON	ON

In this figure the motor has been set to 1/3 hp:
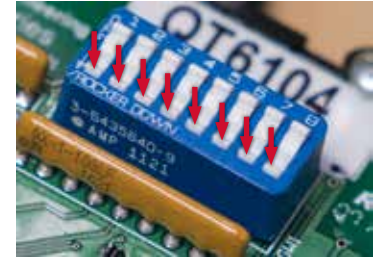(**ON**, **ON**, **ON**, **OFF**, **OFF**, **OFF**, **OFF**, **OFF**)

4 Verify Proper Operation & Lock in Settings

a **Reconnect power to the air handler.** A flashing **Yellow** status LED and solid **Red** (COM) LED indicate proper communication.

If the **Yellow** LED is off, verify power to the QwikSwap® board. If the **RED** LED is off or flashing, there is a communication error.

b **Lock in the Configuration.** With power still being supplied to the QwikSwap® board, set all configuration switches to **OFF**.

c **Set the Fan to On.** Following a short delay, the **Green** (HIGH) LED should initially light and then settle on one of the (HIGH), (MED) or (LOW) LEDs.

d **Set the Fan to Off.** Following a short delay, all the **Green** LEDs should turn **off**.

5 Install the Replacement Azure® Motor (same rotation and voltage)

a Install the replacement Azure® motor, mount the QwikSwap® board.

b Connect the Azure® motor common wire to the **MOTOR COM** terminal on the QwikSwap® board.

c Connect the three Azure® motor speed taps to the corresponding terminals on the QwikSwap® board.

See table below.

HP	Motor	Low	Med	High
1/3	**10865**	Purple	Gray	Yellow
1/2	**10865**	Gray	Yellow	Red
3/4	**10866**	Purple	Gray	Yellow
1	**10866**	Gray	Yellow	Red

Technical Support
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